Api	plication No.	Applicant(s)		
	10/697,579	SCHRIEVER ET AL	SCHRIEVER ET AL.	
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•	son Lee	2821		
The MAILING DATE of this communication appears of All claims being allowable, PROSECUTION ON THE MERITS IS (OR herewith (or previously mailed), a Notice of Allowance (PTOL-85) or ot NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and	REMAINS) CLOSED in the appropriate communities. This application is su	his application. If not included ication will be mailed in due course		
1. This communication is responsive to 10/30/03.				
2. ☑ The allowed claim(s) is/are <u>1-30</u> .				
3. $\boxtimes$ The drawings filed on <u>30 October 2003</u> are accepted by the Exa	aminer.			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 3 a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have bee 2.  Certified copies of the priority documents have bee 3.  Ocpies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of thi noted below. Failure to timely comply will result in ABANDONMENT THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. INFORMAL PATENT APPLICATION (PTO-152) which gives read including changes required by the Notice of Draftsperson's 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Am Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c) each sheet. Replacement sheet(s) should be labeled as such in the he 7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR</li> </ul>	n received. n received in Application ents have been received in Section in the s	No in this national stage application from this national stage application from the requirem of the complying with the requirem of the Office action of the Office action of the Complete the com	ents E OF	
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/30/03, 8/5/04  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 7. ☐ Examiner's A	rmal Patent Application (PTO-152) nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowance Wilson Lee Primary Examiner Art Unit 2821		

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

## Allowable subject matter

Claims 1-30 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art neither discloses nor suggests the following limitations, in combination with the remaining elements required in claim 1:

A pressure measuring device and a control for maintaining a suitable operating pressure for the generation of the plasma extreme ultraviolet (EUV) radiation, and an energy monitor unit for detecting the pulse energy of the emitted radiation, the energy monitor unit having a feedback to the energy input for regulating a pulse-to-pulse stability of the energy emission of the plasma, a radiation diagnosis unit for analyzing the actual radiation characteristic of the radiation emitted from the plasma and generating result data of the diagnosis for influencing the excitation conditions for the plasma, and a main control unit for controlling a defined quality of the coupled out light bundle as radiation pulses of application-specific pulse repetition rate, average energy emission and radiation intensity such as required by claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nguyen et al. (6,610,169) discloses a processing system

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comprising a pressure sensor for sensing the air pressure inside the chamber but fails to disclose an energy monitor for detecting the pulse energy of the emitted radiation. Serwazi et al. (6,549,555) discloses a gas performance control system for gas discharge lasers comprising an ASE (amplified spontaneous emission) sensor but fails to disclose a pressure measuring device and a control for maintaining suitable pressure. Manos et al. (6,343,089) discloses a microwave driven ultraviolet light source comprising a means for monitoring the vacuum emission spectra but fails to disclose the means is able to monitoring the pulse energy data and a pressure monitoring means. Borneis et al. (6,243,405) discloses a staber excimer laser comprising a method for monitoring gas mixture status, pulse energy data and a control for adjusting the pressure and stabilizing the composition of the gas mixture but fails to disclose a pressure measuring device.

## IDS

References cited in IDS dated on 8/5/04 have been crossed through because they are the references duplicated from IDS dated 10/30/03.

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Wilson Lee whose telephone number is (571) 272-1824.

Papers related to Technology Center 2800 applications may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be

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considered an official response must be clearly marked "DRAFT". The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wilson Lee

Primary Examiner

U.S. Patent & Trademark Office

Flan Lee

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